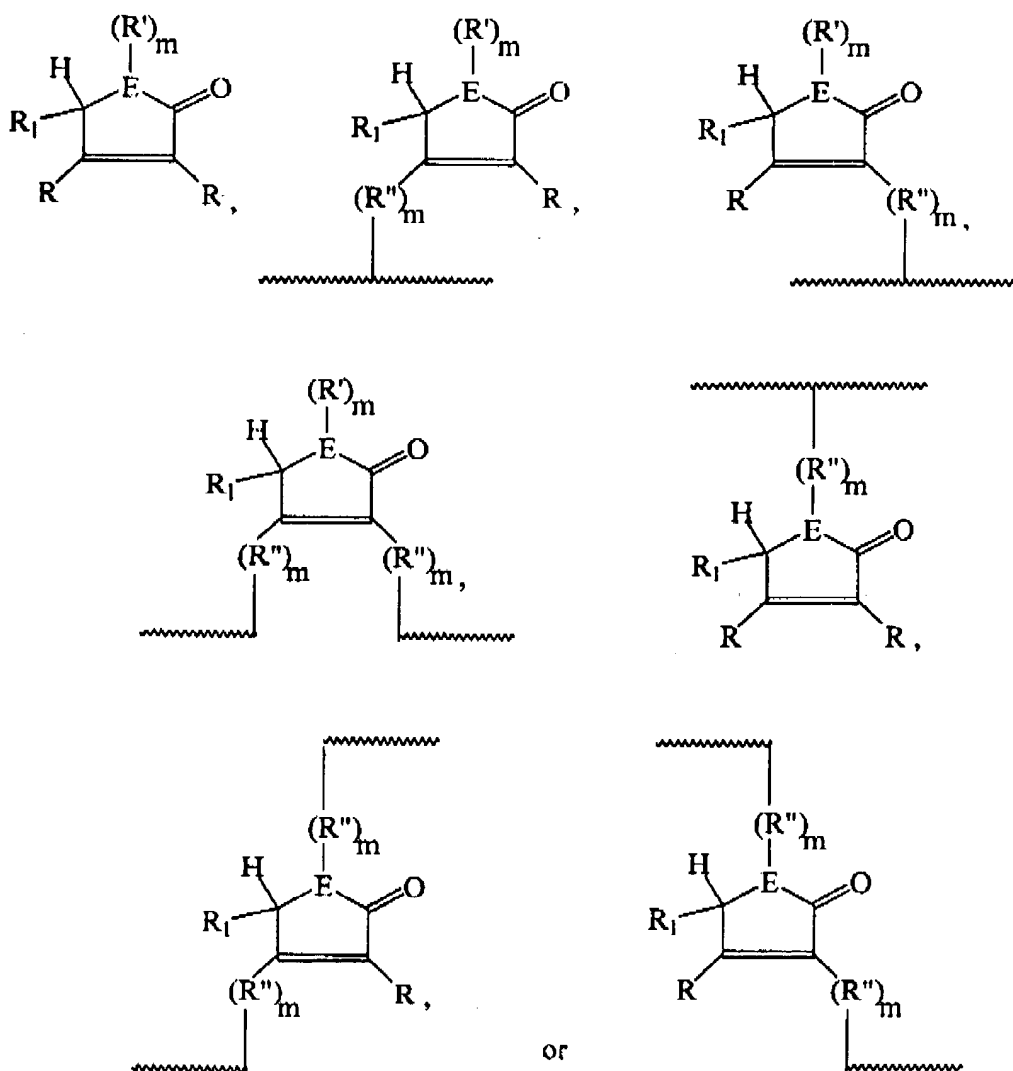


CLAIM AMENDMENTS

Claims 1 to 20 (Canceled)

- 1 Claim 21. (Currently amended) A method of inhibiting the oxidation of a polymer
2 comprising adding to a polymer about 0.005 to about 10 phr of an antioxidant having the
3 general formula



4 where, when an antioxidant is not a phthalide, said polymer is selected from the group
5 consisting of poly(vinylchloride), polycarbonates, polyethers, polyethylene, polypropylene,
6 and mixtures thereof and, when said antioxidant is a phthalide, said antioxidant polymer
7 is selected from the group consisting of poly(vinylchloride), polycarbonates, polyethers, and
8 mixtures thereof, and where E is O, S, or N; R₁ is H, R', OR', SR', OP(R')₂, or COR'; each
9 R is independently selected from R₁, alkylenyl from C₁ to C₁₂, aminoalkyl from C₁ to C₁₂,
10 and hydroxyalkyl from C₁ to C₁₂; R' is alkyl from C₁ to C₁₂ or aryl, alkylaryl, or aralkyl from
11 C₆ to C₁₂; R'' is G, GO, GS, GNH, NHG, NHGO, NHGNH, NHGS, OG, OGO, OGNH, OGS,
12 SGO, SGNH, or SGS; G is alkylenyl from C₁ to C₁₂, arylenyl from C₆ to C₁₂, alkylarylenyl
13 from C₇ to C₁₂, or arylalkylenyl from C₇ to C₁₂; m is 0 if E is O or S and is 1 if E is N; and two
14 R groups can join to form an alicyclic ring or an aromatic ring or an R group and an R₁
15 group can join to form an alicyclic ring.

Claim 22. (Previously presented) A method according to Claim 21 wherein E is O.

Claim 23. (Previously presented) A method according to Claim 21 wherein R is OR'.

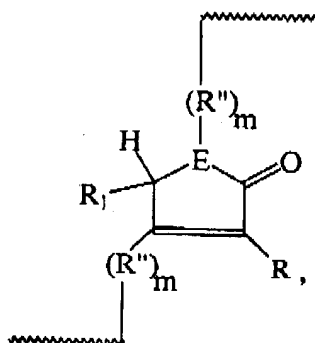
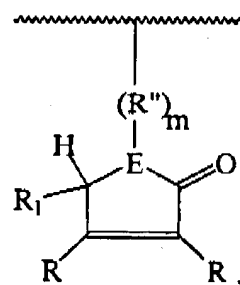
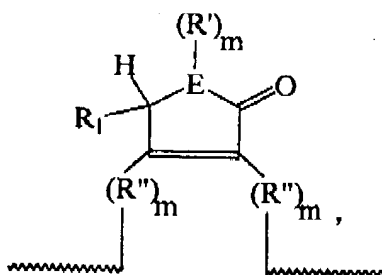
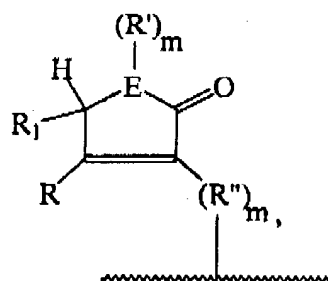
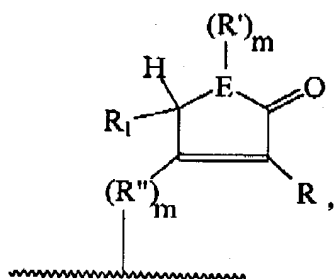
Claim 24. (Previously presented) A method according to Claim 21 wherein two R groups
join to form an aromatic ring.

Claim 25. (Previously presented) A method according to Claim 21 wherein E is N and R'

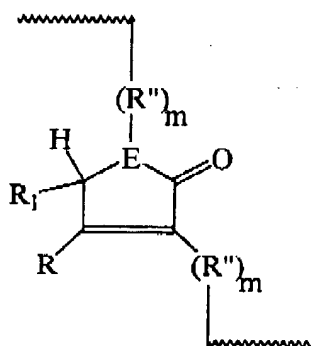
is alkyl from C_1 to C_{12} .

Claim 26. (Previously presented) A method according to Claim 21 wherein R_1 is H.

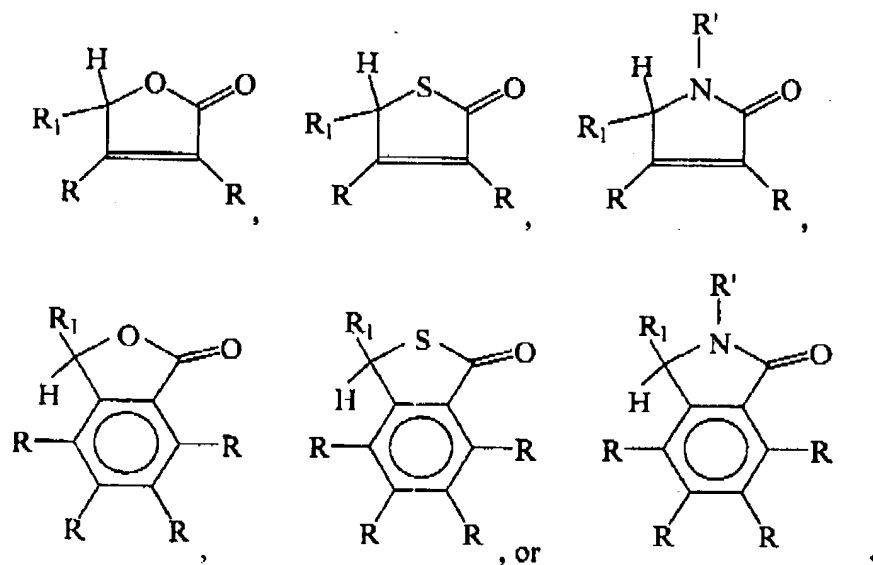
Claim 27. (Previously presented) A method according to Claim 21 wherein said antioxidant has the general formula



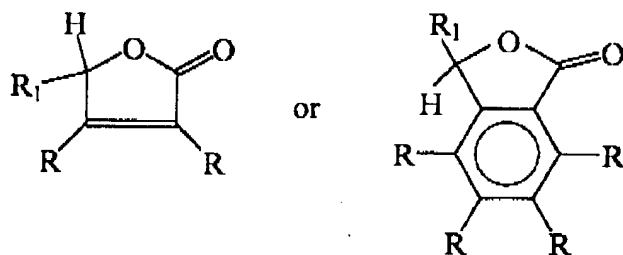
or



Claim 28. (Previously presented) A method according to Claim 21 wherein said antioxidant is



Claim 29. (Previously presented) A method according to Claim 28 wherein said antioxidant has the formula



Claim 30. (Previously presented) A method according to Claim 29 wherein R is OR' and

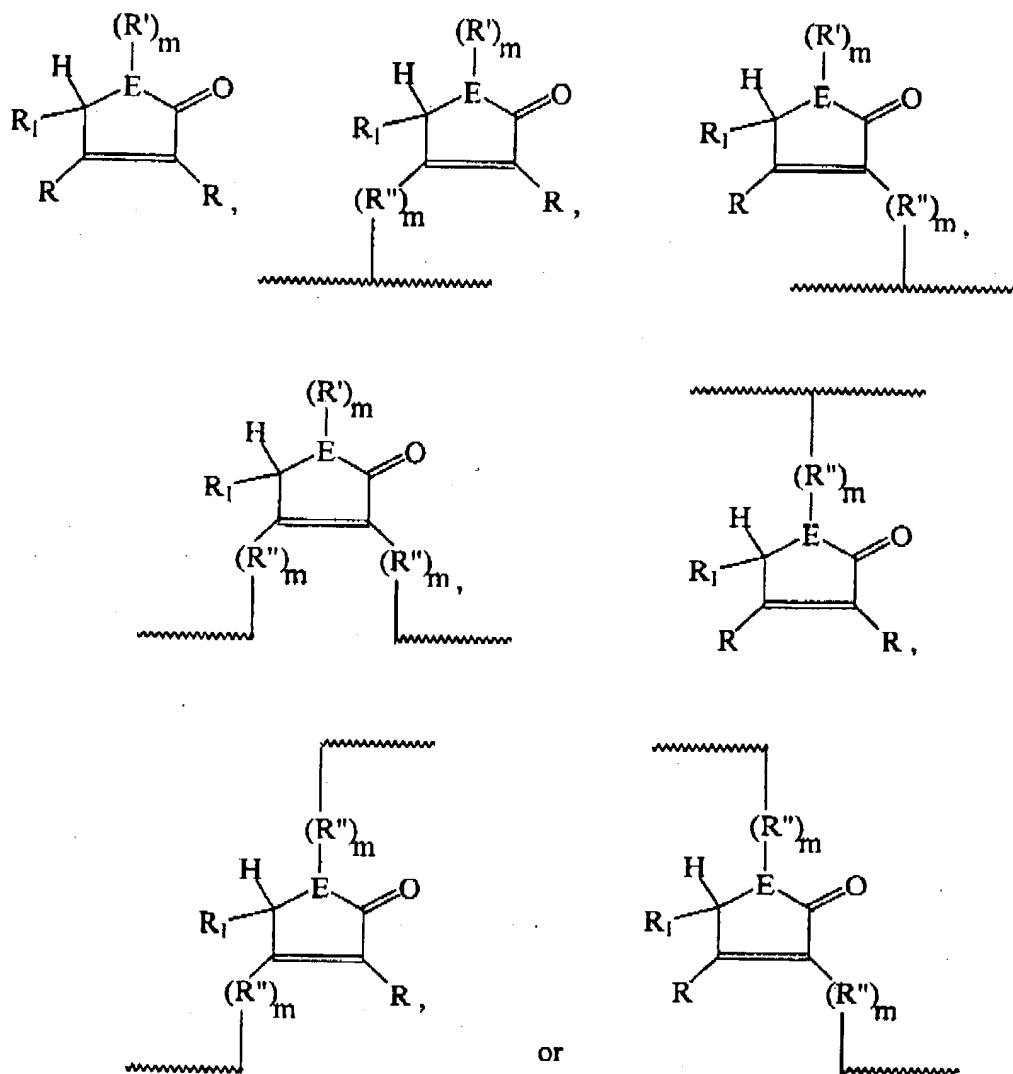
R₁ is H.

Claim 31. (Previously presented) A method according to Claim 21 wherein said polymer is selected from the group consisting of poly(vinylchloride), polyethylene, polypropylene, polycarbonates, and mixtures thereof.

Claim 32. (Previously presented) A method according to Claim 21 wherein said antioxidant is added during the polymerization of said polymer.

Claim 33. (Previously presented) A method according to Claim 21 wherein said antioxidant is added during compounding said polymer.

1 Claim 34. (Previously presented) A method of inhibiting the oxidation of a polymer
2 comprising adding to a polymer selected from the group consisting of poly(vinylchloride),
3 polycarbonates, polyethers, and mixtures thereof, about 0.005 to about 10 phr of an
4 antioxidant having the general formula

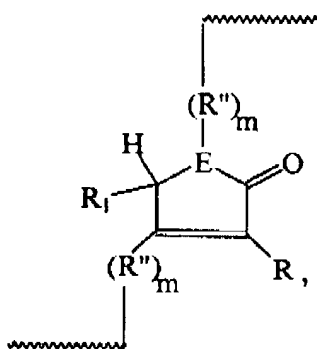
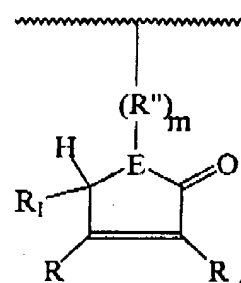
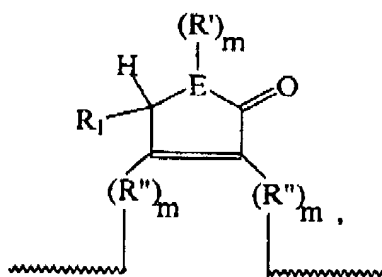
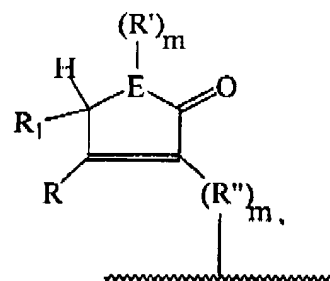
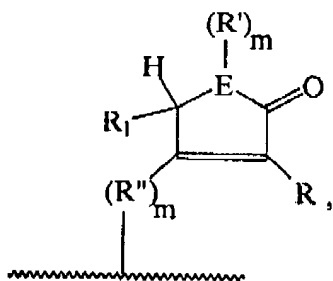


- 5 where each R is independently selected from H or OR' ; R' is alkyl from C_1 to C_{12} ; R_1 is H ;
 6 R'' is alkylenyl from C_1 to C_{12} , arylenyl from C_6 to C_{12} , alkylarylenyl from C_7 to C_{12} , or
 7 arylalkylenyl from C_7 to C_{12} ; E is O , and m is 0 .

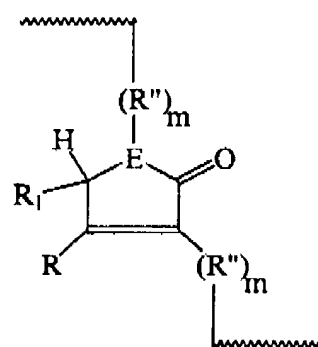
35. (Previously presented) A method according to Claim 34 wherein said polymer is selected from the group consisting of poly(vinylchloride), polycarbonates, and mixtures thereof.

36. (Previously presented) A method according to Claim 34 wherein R is H.

37. (Previously presented) A method according to Claim 34 wherein said antioxidant has the general formula

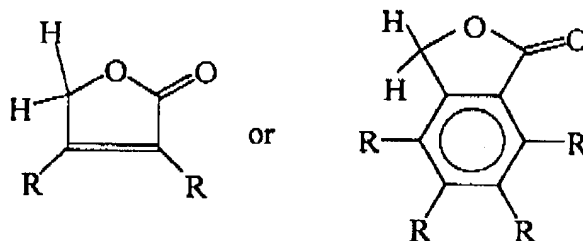


or



- 1 Claim 38. (Previously presented) A method of inhibiting the oxidation of a polymer adding
 2 to a polymer selected from the group consisting of poly(vinylchloride), polycarbonates,
 3 polyethers, and mixtures thereof, during compounding about 0.2 to about 5 phr of an

- 4 antioxidant having the general formula



- 5 where each R is independently selected from H or OR' and R' is alkyl from C₁ to C₁₂.

Claim 39. (Previously presented) A method according to Claim 38 wherein R is H.

Claim 40. (Previously presented) A method according to Claim 38 wherein R is OR'.